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TITLE: JET BED COAL GASIFICATION
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ABSTRACT:

PURPOSE: To obtain low-cost coal gas in a simple apparatus, by blowing preheated powdered coal with an oxygen-containing gas from a burner into a high-temperature furnace, instantaneously burning the blend gas and quick cooling the resultant combustion product.

CONSTITUTION: Powdered coal 1 is preheated at 100~350deg;C in a preheater 8 and then, together with an oxygen-containing gas, such as air, from a feed port 9, blown from a burner 11 into a high-temperature furnace so as to provide >=0.1sec (preferably within 0.05sec) residence time of the combustion product in the high-temperature furnace. The resultant combustion product is

subsequently quick-cooled in a water-cooled sampler 16 to carry out gasification of coal.

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